

26 July 1954

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MEMORANDUM FOR: THE RECORD	
SUBJECT :	Project Monitor
1. Time and Place of Meeting: 20 July 19	954, Room 2504, Quarters Eye.
2. Attendance:	
3. Purpose: to review the work done to	date.
4, 5. Discussion and Conclusions: of the art" survey based on the following out:	is making a "state
a. IMPRA-RED DETECTORS (0.8 to 4.2	
1) Discussion of "atmospheric wi	ndow" in relation to cell
2) Lead sulphide cells \	
3) Lead telluride cells	Characteristics, operating conditions, and circuitry
4) Lead selenide cells	conditions, data delication
5) Kikoin effect infrared detect	or
6) Semi-conductor detectors incl	uding binary compounds
7) Photomultipliers	
8) Infrared sensitive phosphors	
b. IMPRARED SOURCES	
1) Tungsten sources: filters	
2) Cesium sources, particularly	point sources
3) Germanium shutter	
4) Modulated semi-conductor sour	rces
5) Xenon and other sources	DOCUMENT NO
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C. IMAGE CONVERTERS

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- 1) Data on all types
- 2) Image intensifiers
- 3) Optics
- 4) Electron telescopes

d. TIME DELAYS

- 1) Electrostrictive type
- 2) Electroscope or ionization chamber types

e. POWER SOURCES

- 1) Isotope batteries
- 2) Transfer process cells
- 3) Mercury cells and other commercially available batteries
- 4) Solar batteries
- f. ENERGY STORAGE SYSTEMS
- g. INFRARED BARRIER SYSTEMS, INFRARED COMMUNICATION SYSTEM, INFRARED DETECTION SYSTEM

The "state of the art" survey will include:

- a. Literature survey of books and periodicals and other published material.
- b. Literature survey of government contracts and other unpublished work.
 - c. Survey of personal contacts and interviews.

A card file of all references will be made and photostats of pertinent and important papers will be submitted. The final survey with all references will be abstracted on McBee cards.

A discussion on the completeness of the coverage required for the survey produced the conclusion that the field should be covered completely, but that emphasis should be placed on those subjects which appear to have the greater possibility of application to the ultimate devices which APD is attempting to obtain or produce. At

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And the second s	A CARAMA
	hand-held infrared communications unit, viewers, and an infrared surveillance
In his preliminary search, immediately of any readily applica	has agreed to inform us almost ble item that he uncovers.
6. Action: APD will maintain throughout his stay in Washington.	•
	TSS/APD
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